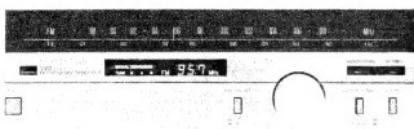


SERVICE MANUAL

FM/AM STEREO TUNER

SANSUI T-80/60



SPECIFICATIONS

<T-80/T-60>

FM Section

Tuning range 88 to 108 MHz

Usable Sensitivity

Mono IHF 10.8 dBf (1.9 μ V: T100)

DIN 1.0 μ V

Stereo IHF 21.0 dBf

50 dB Quieting Sensitivity

Mono 15.0 dBf

Stereo 37.0 dBf

Signal to noise ratio at 65 dBf

Mono 72 dB

Stereo 68 dB

Distortion at 65 dBf

Mono less than 0.2 % at 1,000 Hz

Stereo less than 0.25 % at 1,000 Hz

Alternate channel selectivity (at 400 kHz)

 60 dB

Stereo separation 40 dB at 1,000 Hz

Frequency response 30 to 15,000 Hz

+1.0 dB, -2.0 dB

Antenna input impedance

 300 ohms balanced

 75 ohms unbalanced

AM Section

Tuning range 530 to 1,600 kHz

Usable sensitivity (Bar antenna)

 50 dBf/m (2.00 μ V/m)

Signal to noise ratio

 45 dB

Image response ratio

 45 at 1,000 Hz

Others

Output voltage and impedance

 775 mV/2.2 kilohms

Power requirements

 110 ~ 120, 220 ~ 240 V

 50/60 Hz

For U.S.A. and Canada

 120 V (60 Hz)

Power consumption

 13 W (T-60)

 19 W (T-80)

Weight

 4.1 kg (9.0 lbs) net

 5.1 kg (11.2 lbs) packed (T-60)

 4.4 kg (10.6 lbs) net

 5.8 kg (12.8 lbs) packed (T-80)

Dimensions

 430 mm (16-15/16") W

 147 mm (5-13/16") H

 251 mm (9-15/16") D

* Design and specifications subject to change without notice for improvements.

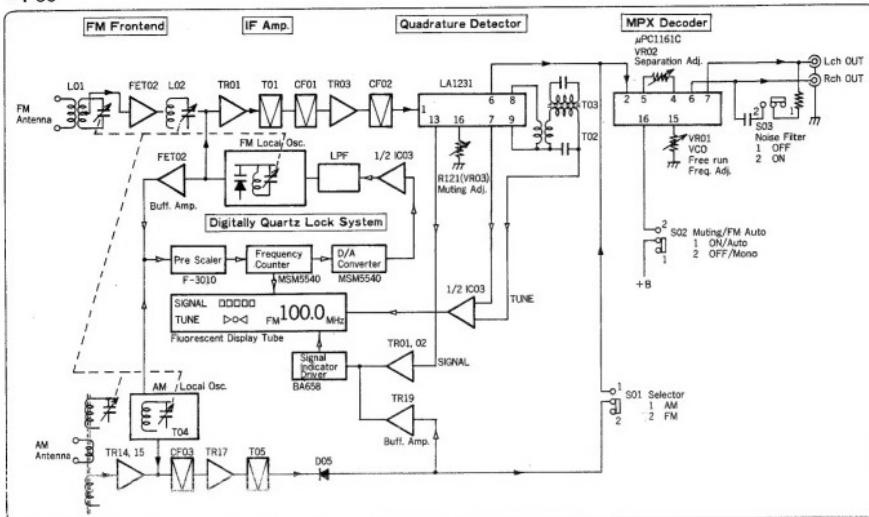
* In order to simplify the explanation illustrations may sometimes differ from the originals.



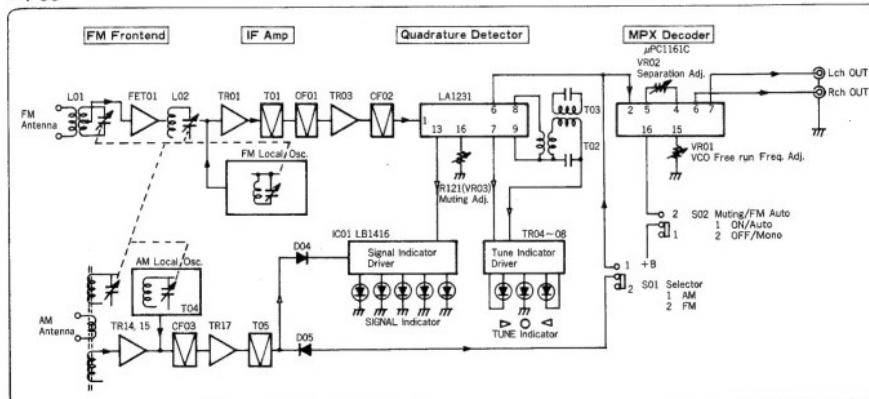
SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM

• T-80



• T-60



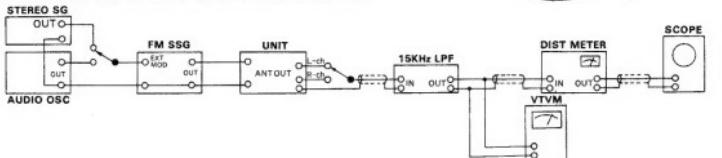
2. ADJUSTMENT

2-1. FM Adjustment (See Top View on Page 8)

Note: 1. Selector FM
2. FM MODE/MUTING Switch MONO/OFF

(1) FM IF, RF Adjustment and Dial Calibration

- Before making adjustments of steps 2 ~ 5, run the unit for more than 2 minutes and make the dial pointer go round on the dial scale at once by tuning knob.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil Adj. In case of using Genescope	Output 80 dB Genescope	JW03 F-3130	Point A F-3130	T01 F-3130	Max. IF waveform	
	IF Coil Adj. In case of using FM SSG & DC volt meter	98 MHz ANT Input 20 dBf (14.8 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	Voltage between Point A and chassis DC volt meter	Same as above	Max. Indication of DC volt meter Meter Range 3V	
2.	Discriminator Coil Adj. In case of using Genescope	Output 80 dB Genescope	Same as above	JW63 F-3130	T02, T03 F-3130	Steep linearity of S curve Make symmetrical S curve	
		No Input		Voltage between TP02 & TP03 F-3130	T02 F-3130	DC 0 V ± 0.1 V	
	Discriminator Coil Adj. In case of using Dist meter	98 MHz ANT Input 65 dBf (59.8 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	OUTPUT L-CH or R-CH Dist Meter VTVM & Scope	T02, T03 & T01 F-3130	Min. THD	
		No Input		Voltage between TP02 & TP03 F-3130	T02 F-3130	DC 0 V ± 0.1 V	
3.	AFC Voltage Adj. <T-80 Only>	No Input		Voltage between TM20 & TM25 F-3130	VR03 F-3000	DC 7 V	Note: As for T-80, steps 3, 4 & 5 should be performed after grounding the collector of TR15 on F-3000
4.	106 MHz Dial Calibration <T-80>	No Input		Dial Pointer	Tuning knob	106 MHz	
				Indication of Display unit	TC03 F-3130	106 MHz	
5.	106 MHz Dial Calibration <T-60>	106 MHz ANT Input 0 dBf (-5.2 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	Dial Pointer	Tuning knob	106 MHz	
				OUTPUT L-CH or R-CH VTVM & Scope	TC03 F-3130	Max. Output	
6.	90 MHz Dial Calibration <T-80>	No Input		Dial Pointer	Tuning knob	90 MHz	
	90 MHz Dial Calibration <T-60>	90 MHz ANT Input 0 dBf (-5.2 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	Indication of Display unit	L04 F-3130	90 MHz	
				OUTPUT L-CH or R-CH VTVM & Scope	L04 F-3130	Max. Output	
	106 MHz RF Adj.	106 MHz ANT Input Minimum value with sine wave 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	OUTPUT L-CH or R-CH VTVM & Scope	TC01, TC02 F-3130	Max. Output	

to be continued ▶

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
7.	90 MHz RF Adj.	90 MHz ANT Input Minimum value with sine wave 1 kHz (100% MOD) FM SSG	Same as above	Same as above	L01, L02 F-3130	Max. Output	
8.	Signal Indicator Adj. <T-80 Only>	98 MHz ANT Input 20 dBf (14.8 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	SIGNAL Indicator	VR01 F-3000	Make 3 indication segments lighting	
		98 MHz ANT Input 65 dBf (59.8 dB), 1 kHz (100% MOD) FM SSG	Same as above	Same as above	Confirm every 8 indication segment lighting		
		No Input		Same as above	Confirm only one indication segment lighting		

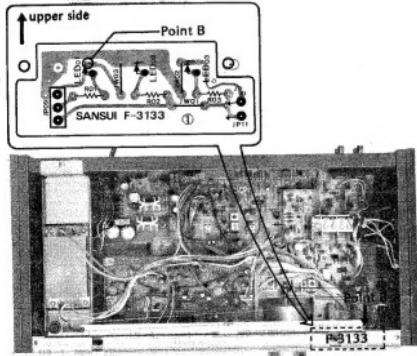
(2) FM STEREO Adjustment

Note: FM MODE/MUTING Switch AUTO/ON

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	PLL VCO Adj.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R (or L) Mode 1 kHz + Pilot (100% MOD) STEREO SG	ANT terminal 300Ω	Stereo Indicator	VR01 F-3130	Light Indicator	Adjust the VR within center of lighting level
	PLL VCO Adj. In case of using Freq. Counter	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG (No MOD)	Same as above	JW90 <T-60> F-3130 Point B <T-80> F-3133 (See Fig. 2-1)	VR01 F-3130	19 kHz ± 50 Hz	
2.	Separation Adj.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R Mode 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	OUT L-CH VTVM & Scope	VR02 F-3130	OUT -40 dB	Confirm separation L-CH → R-CH (-40 dB)
3.	Muting level Adj.	98 MHz ANT Input 15 dBf (9.8 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	Stereo Indicator or OUTPUT L-CH or R-CH VTVM & Scope	R121 (VR03) F-3130	Stereo indicator turns ON or Output Signal comes out	

Fig. 2-1. Location of Point B (Measure output of VCO Signal)

Rear View of F-3133



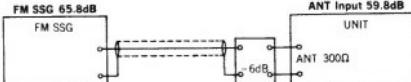
• NEW MEASUREMENT FOR FM.

Input signal level under the provision of IHFM-T-200, a new measurement method is indicated by available power ratio "dBf". To obtain approximate available power ratio "dBf", abstract 0.8 from attenuator indication of general FM SSG (open load indication type); however, the former measurement, IHFM-T-100 is designated together too.

The way of modulation of IHFM-T-200 is shown below.

	modulation frequency	modulation mode	modulation factor
FM MONO	1000 Hz		100%
FM STEREO	1000 Hz	SUB	Pilot 9% Pilot + SUB 100%

The relation between the standard input 65 dBf of IHFM-T-200 and the former indication "dB" is shown below.



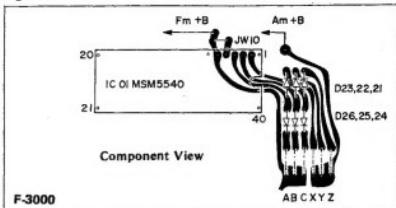
● Selection of Intermediate Frequencies (FM) (Refer to parts location F-3000 on page 6) <T-80 Only>

The digital locking point differs with the frequency rank of the ceramic filter used in the F-3130. When the central frequency (shown by a color) of the ceramic filter is changed, the following connection must be made by using jumper wires:

- Unify the color marks of the FM ceramic filters (CF01, CF02) on the F-3130 with the same color.
- Select the joints A, B, and C of F-3000 according to color marks as shown in the following table:

Colouring	Intermediate frequency	Connecting Position of Jumper wire on F-3000			Connecting Position of Diode on F-3000				
		A	B	C	Jumper wire Total Q'ty	D26	D25	D24	Diode Total Q'ty
Black	10.64MHz			●	1			●	1
Brown	10.66MHz		●		1		●		1
Blue	10.68MHz		●	●	2		●	●	2
Red	10.70MHz	●			1	●			1
Orange	10.72MHz	●		●	2	●		●	2
Gray	10.74MHz	●	●		2	●	●		2
White	10.76MHz	●	●	●	3	●	●	●	3

Fig. 2-2



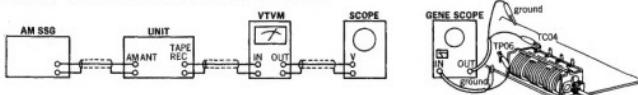
F-3000

● Abbreviations

Genescope	Genescope
AM FM Generator Oscilloscope	AM SSG
AM Standard Signal Generator	FM SSG
FM Standard Signal Generator	Stereo SG
FM Stereo Generator	Scope
Oscilloscope	Audio Osc.
Audio Oscillator	Dist. Meter
Distortion Meter	
<Others>	
Antenna	ANT.
Modulation	MOD.
Total Harmonic Distortion	T.H.D.

2-2. AM IF Adjustment & Dial Calibration (See Top View on Page 8)

Note: 1. Selector AM



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil Adj.	Genescope Output 60 dB		TC04 F-3130	TP06 F-3130	CF03, T05 F-3130	Max. Waveform
2.	600 kHz Dial Calibration <T-80>	No Input		ANT terminal	Dial Pointer	Tuning knob	600 kHz
	600 kHz Dial Calibration <T-60>	600 kHz ANT Input 60 dB 400 Hz (30% MOD.) AM SSG			Indication of digital display unit	T04 F-3130	600 kHz
3.	1400 kHz Dial Calibration <T-80>	No Input		ANT terminal	Dial Pointer	Tuning knob	1400 kHz
	1400 kHz Dial Calibration <T-60>	1400 kHz ANT Input 60 dB 400 Hz (30% MOD.) AM SSG			Indication of digital display unit	TC05 F-3130	1400 kHz
4.	1400 kHz RF Adj.	1400 kHz ANT Input 50 dB 400 Hz (30% MOD.) AM SSG	Same as above	Dial Pointer	Tuning knob	1400 kHz	
				OUTPUT L-CH or R-CH VTVM & Scope	TC05 F-3130	Max. Output	

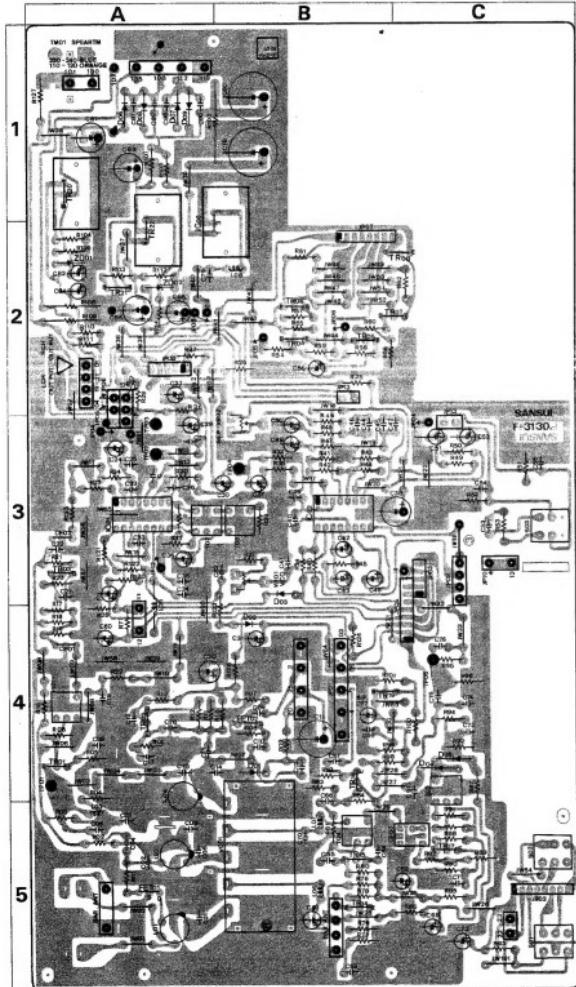
3. PARTS LOCATION & PARTS LIST

* As the stock number in the parts list on this service manual is indicated in 8 digit to differ from ordinary 7 digit, please be careful when ordering parts.

- Note: Parts marked X, Y or without marks indicate as follow:
 1. Parts marked X in parts list for T-80 Only
 2. Parts marked Y in parts list for T-60 Only
 3. Parts without marks in parts list for both T-80 and T-60.

3-1. F-3130 AM, FM, RF, IF Circuit Board (Stock No. 07062101 = T-80) (Stock No. 07056701 = T-60)

Conductor Side



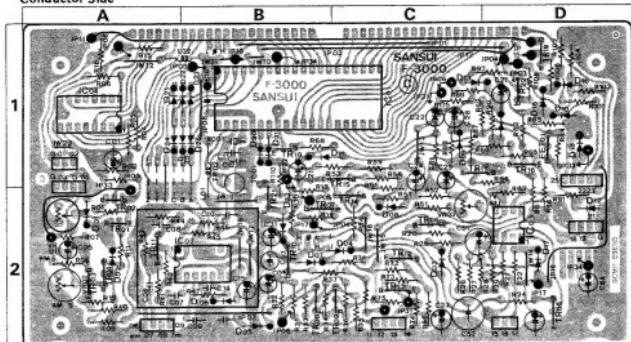
Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

Parts List

Part No.	Stock No.	Description	Position
#Transistor			
TR01	03063401, 2	2SC1674 L, K	4A
TR02	03069500, 2	2SC5088 C, D	4A, 3A
TR04	03068301, 2	2SC2326 E, F	..... Y
TR05, 06	03012700, 1	2SA4995 E, F	..... Y
TR07, 08	03057900, 1	2SC5093 C, D	2C
TR10	03057900, 1	2SC5093 C, D	5B
TR15	03004700, 1	2SA726 F, G	5B
TR16	03057900, 1	2SC5093 C, D	..... X
TR17	03057900, 1	2SC5093 C, D	5C
TR19	03012700, 1	2SA4995 E, F	..... X
TR20	03034401, 2	2SB5827 D, E	..... X
TR21	03068301, 2	2SC2326 E, F	..... X
TR22	03068301, 2	2SD3130L D, E	2A
#IC			
IC 01	03612300	LA1221N	3A
IC 02	03609900	μP2161C	3B
IC 03	03609200	F57805M	..... X
#FET			
FET01	03703700, 1	2SK120-1, 2	..... X
FET02	03703700, 1	2SK120-1, 2	5A
#Diode			
D 01	03402100	1N5537	..... X
D 02, 03	03117600	1S2473D	3, 4B
D 05	03117800	1N60	4C
D 06 ~ 09	03117700	1N6-2	1A
#Zener Diode			
ZD01	03179100	RD12E-C	..... X
ZD02	03179100	RD13E-C	2A
C 39	08701500	360pF 50V P.C.	3B
C 40	08904300	0.047μF 30V F.C. (M)	3B
C 41	08904300	0.047μF 50V F.C. (M)	3B
C 42	08470800	1.5μF 35V Te.C.	3B
C 43	08471000	3.3μF 35V Te.C.	3B
C 44	06702200	.750pF 50V P.C.	3B
C 45	08702200	1.2μF 35V Te.C.	3B
C 46	08503400	0.001μF 50V F.C. (M)	3B
C 47	08600400	0.001μF 50V F.C. (M)	3B
C 48	08472300	0.27μF 35V Te.C.	3C
C 49	08600400	0.001μF 50V F.C. (M)	3C
C 54	08503600	0.001μF 50V F.C.	3C
C 55	08500900	0.001μF 50V F.C. (M)	3B
C 56	08500900	0.001μF 50V F.C. (M)	3B
C 57	08502700	0.01μF 50V F.C. (M)	4C
C 74	08504300	0.001μF 50V F.C. (M)	4C
C 75	08504300	0.047μF 50V F.C. (M)	4C
C 76	08504300	0.001μF 50V F.C. (M)	4C
C 77	03868100	0.0047μF 150V C.C.	4C
C 88	03868600	0.0047μF 125V C.C.	1A
R 103	00092100	100Ω 3W Ce.R.	1B
R 104	00127800	150Ω 1W F.R.	..... X
R 107	00128700	271Ω 1W F.R.	..... Y
R 108	00189000	330Ω 2W N.J.R.	..... X
R 109	00189000	330Ω 2W N.J.R.	..... X
L 01	42007200	Antenna Coll	5A
L 02	42103400	RF Coll	5A
L 03	42004000	Inductor 1.0μH	5A
L 04	42204000	Osc Coll	4A
L 05	42904600	Peaking Coll	4A
L 06	49002800	Inductor 1.0μH	5B
L 07	49002800	Inductor 100mH	2B
L 08	49002200	Inductor 100mH	2B
T 01	42359300	If Filter 10.7 MHz	4A
T 02	42359300	FM Demod. Coll	3A
T 03	42362800	FM Detector Coll	3B
T 04	42207400	AM OSC Coll	5B
T 05	42306600	AM IF Coll	4C
CF 01	09104800	Ceramic Filter 10.7 MHz	4A
CF 02	09104800	Ceramic Filter 10.7 MHz	3A
CF 03	09106600	Ceramic Filter 455 kHz	5C
CF 03	09106100	Ceramic Filter 455 kHz	5C
VRO1	10370600	VCO Free Run Freq. Adj.	
VRO2	10371100	Sync. Adj.	
R121(VR03)	10371100	Muting level Adj. 200kΩ	3A
S 01	11321500	Push Switch, AM/FM	5C
S 03	11314901	Push Switch	
		Noise Canceller	3C
F 01	04312200	AC Fuse	
VC01	12203000	Variable Capacitor	
	22007000	2P Output Terminal	
	22902600	4P Antenna Terminal	

3-2. F-3000 Digitally Display Circuit Board (Stock No. 75988901 = T-80)

Conductor Side

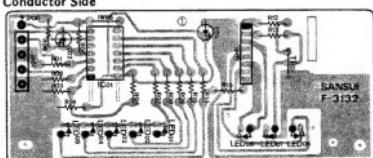


Parts List

Part No.	Stock No.	Description	Position	Part No.	Stock No.	Description	Position	Part No.	Stock No.	Description	Position	
Transistor				FET	030703000 ~ 3	2SK117 O, Y, GR, BL		C 54	00303500	0.5μF 10V B.P.	2D	
TR01	03095601	~ 3 2SC945 Q, P, K	2A	FET01	03074000 ~ 7	2SK163 K1, K2, L1, L2,	1D	L 01	42900101	Choke Coil 3.5μH		
TR02	03095100	~ 2 2SA733A Q, P, Q	2A		03074000 ~ 7	2SK163 M1, N1, N2		L 02	49000100	Inductor 100μH		
TR05, 06	03095100	~ 3 2SC945 Q, P, R	2D, 2C									
TR07	03095100	~ 3 2SC945 Q, P, R	2B									
TR08, 09	03095601	~ 3 2SC945 Q, P, R	2B, 2C	Diode	D 03, 04	03111600	152473D	2A, C	VR01	10351300	FM SIGNAL Adj. 10kΩ [B] 2A	
TR09	03095601	~ 2 2SA733A P, Q, K	2B		D 07 ~ 14	03111600	152473D	1, 2C	VR03	10351100	AFC Bias Adj. 4.7kΩ [B] 2C	
TR10	03095601	~ 3 2SC945 Q, P, K	1, 2C		D 17, 18	03111600	152473D	2D, 1D	X001	39300400	Crystal 6.528 MHz	1B
TR12 ~ 18	03095601	~ 3 2SC945 Q, P, K	1, 2C		D 19, 20	03111600	152473D	1, 2C	FL01	03000100	Fluorescent Display Tube	
TR20	03095601	~ 3 2SC945 Q, P, K	1D		D 21, 22	03111600	152473D	1, 2C				
TR21	03095601	~ 3 2SC945 Q, P, K	1B		D 23, 24	03111600	152473D	1, 2C				
IC					C 11	00869000	8pF 80V C.T.	1B				
IC 01	03060700	MSM5401RS	1B		C 12	00867200	22pF 50V C.T.	1B				
IC 03	03060700	NJM4556Q	2D		C 52	03034700	33pF 16V B.P.	2C, D				
IC 04	03060300	BA658	1A		C 53	03034900	3.3μF 18V B.P.	2B				

3-3. F-3132 SIGNAL, TUNE Indicator Circuit Board (Stock No. 75989301 = T-60)

Conductor Side



Parts List

Part No.	Stock No.	Description
IC		
IC 01	03611600	LB1416
LED01 ~ 05	03193200	GL-BP#R (Red)
LED06, 07	03193200	GL-BP#R (Red)
LED08	03193200	GL-BP#G (Green)

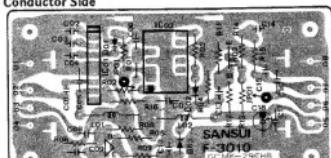
Abbreviations

C.R.	Carbon Resistor	E.L.	Low Leak Electrolytic Capacitor
S.R.	Solid Resistor	E.B.	Bi-Polar Electrolytic Capacitor
C.R.R.	Metal Film Resistor	E.B.L.	Low Leak Bi-Polar Electrolytic Capacitor
F.R.	Fusing Resistor	Ta.C.	Tantalum Capacitor
N.I.R.	Non-Inflammable Resistor	F.C.	Film Capacitor
C.C.	Ceramic Capacitor	M.C.	Metalized Paper Capacitor
C.T.	Capacitor, Ceramic, Temperature Compensation	P.C.	Polymethyl Capacitor
E.C.	Electrolytic Capacitor	G.C.	Gimic Capacitor

3-4. F-3010 Pre Scaler Circuit Board

(Stock No. 75989101 = T-80)

Conductor Side



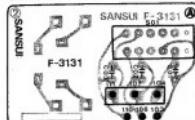
Parts List

Part No.	Stock No.	Description
Transistor		
TR01, 02	03063401, 2	2SC1674 L, K
IC		
IC 01	09611300	AN961
IC 02	03613900	SN741390N
IC 03	03613900	SN7490A
IC 04	03613700	TD34690B
Diode		
D 01 ~ 03	03111600	152473D
D 01, 02	42900101	Choke Coil 3.5μH

- The circuit boards, F-3131 & F-3133 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

3-5. F-3131 Power Switch Circuit Board

Conductor Side



Parts List

Parts No.	Stock No.	Description
S 01	01123100	Push Switch, power 25V, 1A X
	11323000	Push Switch, power 25V, 1A Y

3-6. F-3133 Stereo Indicator Circuit Board

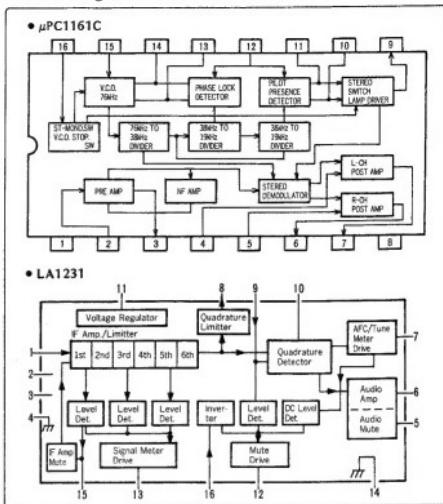
Conductor Side



Parts List

Parts No.	Stock No.	Description
LED001	031932000	GL-8PR9 (Red), Stereo AM
LED002	031933000	GL-9NG9 (Green), FM Y
LED003	031932000	GL-9PR9 (Green), Quartz Locked X
	031932000	GL-9PR9 (Red), Stereo Y

• Block Diagram of LA-1231 & μPC1161C



4. REPLACEMENT OF DIAL CORD

- If a dial cord is cut off or slips, replace it by following procedures. As this unit uses 0.5 mmφ cord, please replace it with the same type certainly.
- The length of dial cord is approximately 215 cm (84.6 inch).

4-1. Threading of Dial Cord

<T-80/60>

Thread the dial cord in numerical order from ① to ⑪ as Fig. 1.

- Close the variable capacitor completely.

* Dial Cord (0.5 mmφ) (Stock No. 6036050)

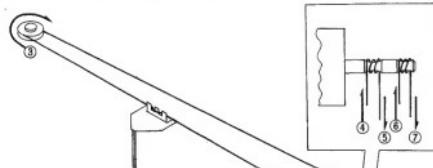
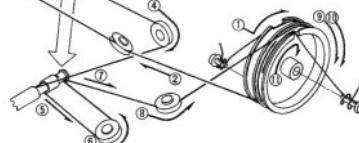
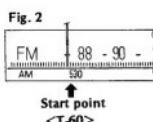


Fig. 1



4-2. Attachment of Dial Pointer

<T-80>

- After installing the dial string, turn on the power switch. If the dial digital display is in the "FM Reception" state, turn the tuning knob until the digital display indicates 98.0 MHz. Then, fix the pointer to the dial string, after setting the pointer to the 98.0 MHz value of the scale.

2. After attaching Dial pointer, confirm Dial pointer moves from 88 MHz to 108 MHz to turn the tuning knob.

<T-60>

- Close the variable capacitor completely.
- Set the dial pointer to the start point, the line at the left end of the dial scale. (Fig. 2)
 - Confirm that the dial pointer runs smoothly on the dial scale by turning the turning shaft.

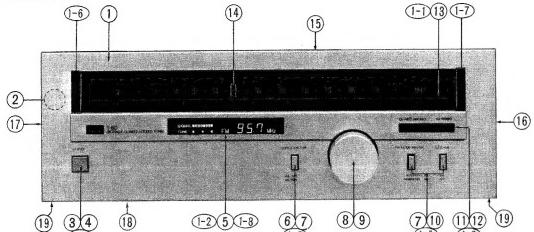
T-80/60

T-80/60

5. OTHER PARTS

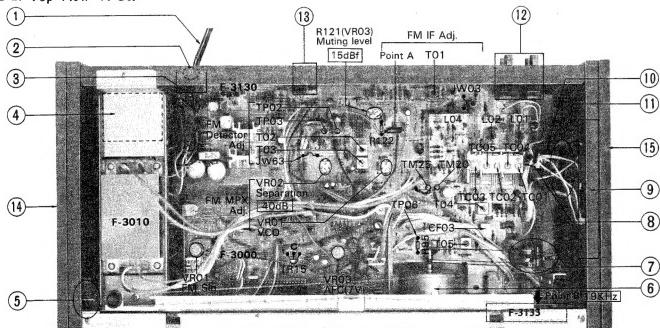
- Since there are black & silver models in T-80 & T-60, please pay attention when ordering parts.
 Parts marked (S) in parts list for silver model only
 Parts marked (B) in parts list for black model only

5-1. Front View <T-80>



Parts List

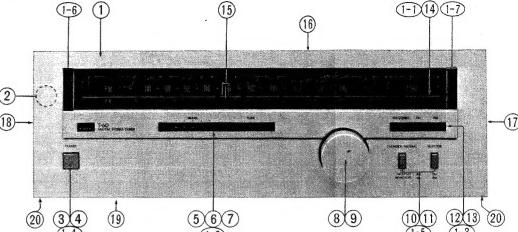
5-2, Top View <T-80>



Parts List

Part No.	Stock No.	Description	Part No.	Stock No.	Description	Part No.	Stock No.	Description
1	38005400	Power Cord 12V, 10A	7	71361700	Tension Unit	14	54579000	Side Panel (L)
39100000		Vehicle Relief	12	12203000	Variac Capacitor	15	54578110	Side Panel (R)
2	34500000	AC Output	9	42000000	Antenna Extension			
3	40232000	Power Transformer	10	52958000	Antenna Holder			
4	04079800	Lamp 20W, 0.12A	11	61467220	Fulcrum			
7	70302700	Antenna 100 cm	12	22000000	Antenna Terminal			
6	70302700	Antenna 100 cm	13	22007000	2P Input Terminal			
7	70302700	Antenna Tuning Unit (B)						

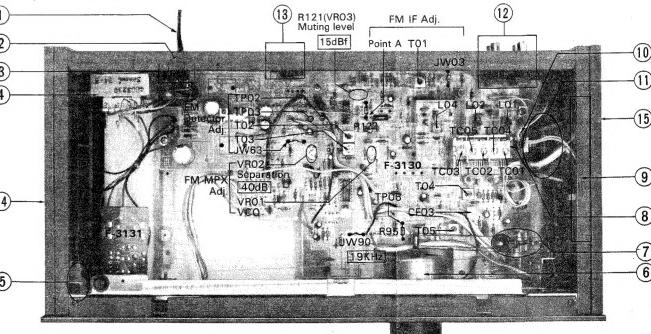
5-3. Front View <T-60>



Parts List

Part No.	Stock No.	Description	Part No.	Stock No.	Description	Part No.	Stock No.	Description
70081000		Front Panel Assy (F)	1-7	5648800	Silicon Frame (R)	10	11219100	Push Switch, FM mode & selector
70081000		Front Panel Assy (B)	2	5648800	Silicon Frame (B)	11	13194810	Push Knob (B), FM mode, selector
1-1	53697000	Window Glass	3	11323000	Pump Switch, 25V, 1A, power	12	03193000	LED (Red), FM
1-2	54466000	Smoked Glass, display window	4	53190000	Pump Knob (S), power	13	03193000	LED (Green), AM, FM
1-4	56956000	Knob Guide (S), power	5	03193000	LED (Red), S/N, Indicator	14	54028000	Dial Scale
1-5	56956000	Knob Guide (B), power	6	03193000	LED (Green), TUNE, Indicator	15	57272000	Bonnet
1-6	56957010	Knob Guide (B)	7	03193000	LED (Green), TUNE	16	57272000	Bonnet
1-6	56957010	Knob Guide (B)	8	53193000	Tuning Knob (B)	18	54578000	Side Panel (L)
1-6	56957010	Knob Guide (B)	9	17037000	Tuning Knob (B)	20	55075410	Rubber Patch
1-6	56957010	Knob Guide (B)	10	17037000	Tuning Knob (B)	21	55075410	Rubber Patch

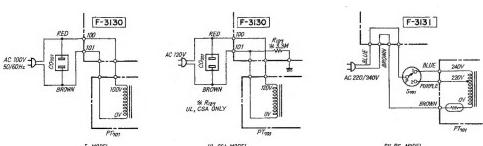
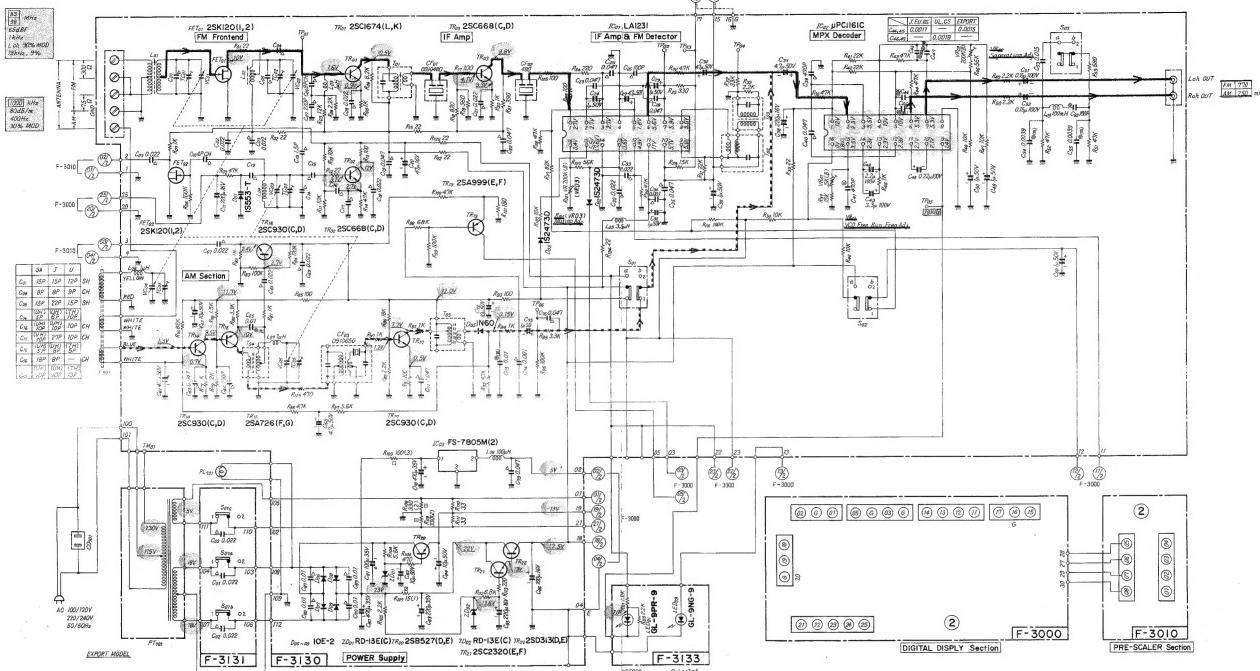
5-4. Top View <T-60>



Parts List

Part No.	Stock No.	Description	Part No.	Stock No.	Description	Part No.	Stock No.	Description
1 38056401	1	Power Cord 125V, 10A	7 129161700		Terrain Unit	14 54579000		Panel Set (L)
2 39100000	1	Panel Set (R)	8 129161700		Antenna Holder	15 54578110		Panel Set (R)
4 40032300	1	Power Transformer	9 420311000		Am Bar Antenna			
5 40032300	1	Power Transformer	10 52668000		Antenna Holder			
6 [70369110]	1	Tuning Unit (S)	11 61800000		Antenna			
			12 22620000		4P Antenna Terminal			
			13 22620000		2P Input Terminal			
			14 22070000		2P Input Terminal			
			15 70367000		Panel Set (R)			

6. SCHEMATIC DIAGRAM 6-1. Tuner Section <T-80>



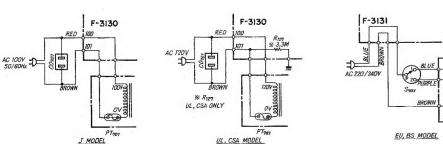
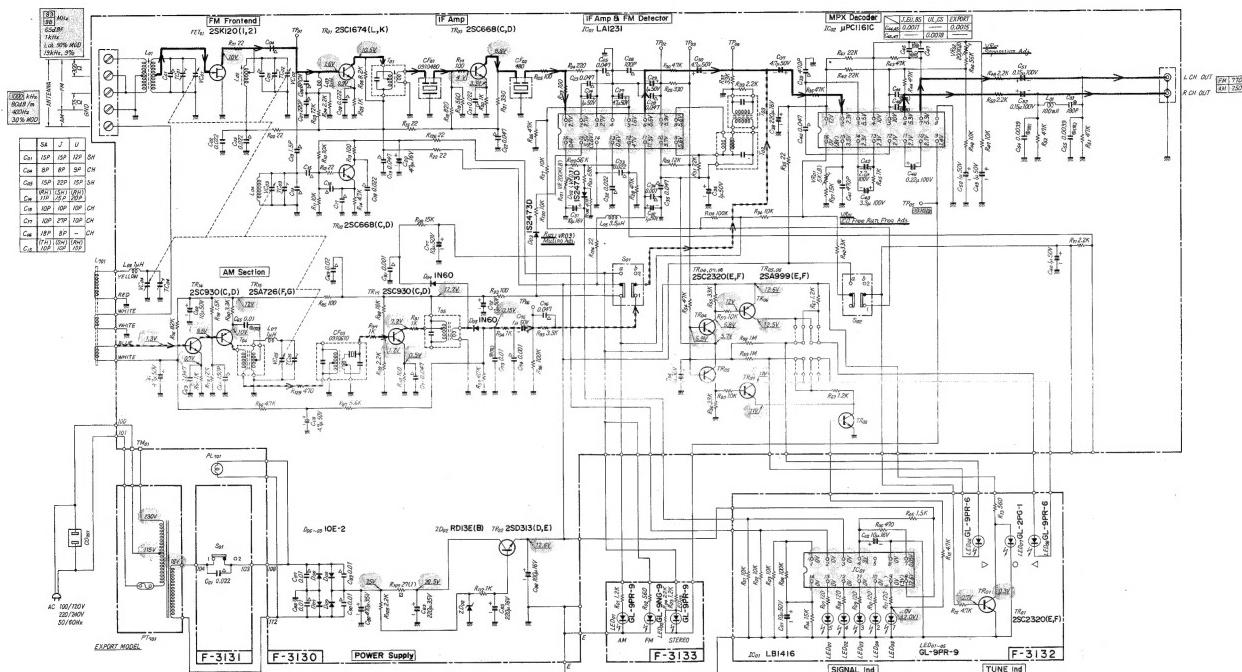
SYMBOL	RESISTORS
Ceramic Mylar Polystyrene	Are in ohms 5-5% Tolerance Unless Otherwise Noted. K=KA, M=MD
Low Leak Dielectric Tantalum	CAPACITOR
Non-Inflammable Resistor	Are in μ . Unless Otherwise Noted. P=pF
Fusing Resistor	D.C. Voltage
Cement Resistor	Each D.C. Voltage shows the nominal

RESISTORS	SWITCHES
Are in ohms 1/4 wats 5% Tolerance	<i>S₁</i> (a-c) POWER (F-3131)
Unless Otherwise Noted, R _{K2} , H _{M2}	1. OFF
	<i>S₂</i> (a-b) SELECTER (F-3130)
CAPACITORS	1. AM
Are in μ F, Unless Otherwise Noted 1/pF	2. FM
	<i>S₃</i> (a-b) MUTTERNS / FM AUTO (F-3170)
D.C. VOLTAGE	
Each D.C. Voltage shows the nominal value as ratio to an input signal	2. OFF-V _{H20}
	3. L ₁ (45), M ₁ (55), G ₁ T ₁ (P)

— FM
- - - AM

A	B	C	D	E	F	G	H
---	---	---	---	---	---	---	---

6-2. Tuner Section <T-60>



SYMBOLS:

- Q: Diode
- R: Resistor
- C: Capacitor
- L: Inductor
- P: Transistor
- M: Mechanical Component
- W: Wire

NOTES:

- Resistor: $R = \text{about } 7.5 \text{ mill} \Omega, 7.5\% \text{ Tolerance unless otherwise noted.} R_{1-2} = 10 \text{ k}\Omega$
- Capacitor: $C = \text{Low Dielectric Cx} \text{ (ceramic)}$
- Inductor: $L = \text{Coil wound on a ferrite core}$
- Transistor: $T = \text{P-N-P Transistor}$
- Diode: $D = \text{Silicon Diode}$
- Mechanical Component: $M = \text{Mechanical part}$
- Wire: $W = \text{Wire}$

IC NOTES:

- IC 2SK120: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SC1674: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SC668: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2LA123I: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2PC1161C: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SA726: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SC330: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SD333: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$

IC NOTES:

- IC 2SK120: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SC1674: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SC668: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2LA123I: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SA726: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SC330: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$
- IC 2SD333: $I_{CBO} = \text{about } 16 \text{ mill} A, 7.5\% \text{ Tolerance unless otherwise noted.} V_{DS(on)} = 100 \text{ V}$

1

2

3

4

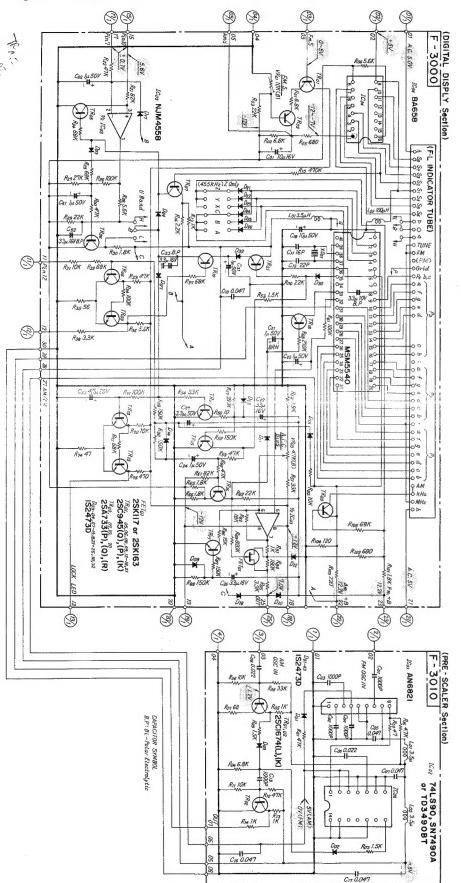
5

• Design and specifications subject to change without notice for improvement.
 • La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suite d'améliorations éventuelles.
 • Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

T-80/60

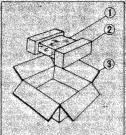
T-80/60

6.3. Digital Display Section <T-80>



7. PACKING LIST

Parts No.	Stock No.	Description
1	91263600	Vinyl Cover
2	92054000	Symocean Pack.ing
3	90561900	Carton Case <T-80 (S)>
	90563000	Carton Case <T-80 (B)>
	90562000	Carton Case <T-60 (S)>
	90562600	Carton Case <T-60 (B)>



8. ACCESSORY PARTS LIST

Stock No.	Description
92056200	Operating Instructions <T-80>
92056100	Operating Instructions <T-60>
38201200	FM Antenna
38103200, 1	PJP Cord

SANSUI ELECTRONICS CORPORATION: 1200 Valley Brook Ave., Lyndhurst, NJ 07071 U.S.A.

1111 North Alameda Blvd., Gardena, California 90243 U.S.A.

3036 Kupala St., Honolulu, Hawaii 96819 U.S.A.

North Train Bldg. (1st floor) Nederlaan 133 Bus 1,2030 Antwerp, Belgium

Ababella center, 6 Frankfurt AM Main, Lyoner Strasse 44-48, West Germany

SANSUI ELECTRIC COMPANY LTD.: 14-1 Izumi 2-chome, Sugimamiku, Tokyo 168 Japan PHONE: (03) 323-1111 TELEX: 232-2076

Sansui